Table S6

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PA0432 sahH S-adenosyl-L-homocysteine hydrolase PA0452 probable stomatin-like protein PA0459 probable ClpA/B protease ATP binding subunit PA0484 conserved hypothetical protein PA0520 nirQ regulatory protein NirQ PA0540 hypothetical protein PA0586 conserved hypothetical protein PA0588 conserved hypothetical protein PA0612 ptrB repressor, PtrB PA0614 hypothetical protein PA0616 hypothetical protein PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0387		conserved hypothetical protein
PA0452 probable stomatin-like protein PA0459 probable ClpA/B protease ATP binding subunit PA0484 conserved hypothetical protein PA0520 nirQ regulatory protein NirQ PA0540 hypothetical protein PA0586 conserved hypothetical protein PA0588 conserved hypothetical protein PA0612 ptrB repressor, PtrB PA0614 hypothetical protein PA0616 hypothetical protein PA0616 hypothetical protein PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0388		hypothetical protein
PA0484 conserved hypothetical protein PA0520 nirQ regulatory protein NirQ PA0540 hypothetical protein PA0586 conserved hypothetical protein PA0588 conserved hypothetical protein PA0612 ptrB repressor, PtrB PA0614 hypothetical protein PA0616 hypothetical protein PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0432	sahH	S-adenosyl-L-homocysteine hydrolase
PA0484 conserved hypothetical protein PA0520 nirQ regulatory protein NirQ PA0540 hypothetical protein PA0586 conserved hypothetical protein PA0588 conserved hypothetical protein PA0612 ptrB repressor, PtrB PA0614 hypothetical protein PA0616 hypothetical protein PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0452		probable stomatin-like protein
PA0520 nirQ regulatory protein NirQ PA0540 hypothetical protein PA0586 conserved hypothetical protein PA0588 conserved hypothetical protein PA0612 ptrB repressor, PtrB PA0614 hypothetical protein PA0616 hypothetical protein PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0459		probable ClpA/B protease ATP binding subunit
PA0540 hypothetical protein PA0586 conserved hypothetical protein PA0588 conserved hypothetical protein PA0612 ptrB repressor, PtrB PA0614 hypothetical protein PA0616 hypothetical protein PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0484		conserved hypothetical protein
PA0586 conserved hypothetical protein PA0588 conserved hypothetical protein PA0612 ptrB repressor, PtrB PA0614 hypothetical protein PA0616 hypothetical protein PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0520	nirQ	regulatory protein NirQ
PA0588 conserved hypothetical protein PA0612 ptrB repressor, PtrB PA0614 hypothetical protein PA0616 hypothetical protein PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0540		hypothetical protein
PA0612 ptrB repressor, PtrB PA0614 hypothetical protein PA0616 hypothetical protein PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0586		conserved hypothetical protein
PA0614 hypothetical protein PA0616 hypothetical protein PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0588		conserved hypothetical protein
PA0616 hypothetical protein PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0612	ptrB	repressor, PtrB
PA0619 probable bacteriophage protein PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0614		hypothetical protein
PA0624 hypothetical protein PA0631 hypothetical protein PA0635 hypothetical protein	PA0616		hypothetical protein
PA0631 hypothetical protein PA0635 hypothetical protein	PA0619		probable bacteriophage protein
PA0635 hypothetical protein			
PA0636 hypothetical protein	PA0636		hypothetical protein

PA0648		hypothetical protein
PA0656		probable HIT family protein
PA0745		probable enoyl-CoA hydratase/isomerase
PA0746		probable acyl-CoA dehydrogenase
PA0762	algU	sigma factor AlgU
PA0776		hypothetical protein
PA0865	hpd	4-hydroxyphenylpyruvate dioxygenase
PA0866	aroP2	aromatic amino acid transport protein AroP2
PA0870	phhC	aromatic amino acid aminotransferase
PA0871	phhB	pterin-4-alpha-carbinolamine dehydratase
PA0872	phhA	phenylalanine-4-hydroxylase
PA0887	acsA	acetyl-coenzyme A synthetase
PA0921	uc3/1	hypothetical protein
PA0959		hypothetical protein
PA0960		hypothetical protein
PA1002	phnB	anthranilate synthase component II
PA1027	рин ь	probable aldehyde dehydrogenase
PA1041		probable outer membrane protein precursor
PA1041		conserved hypothetical protein
PA1042		probable outer membrane protein precursor
PA1053		conserved hypothetical protein
PA1033	$fl_{\alpha}I$	**
PA1084 PA1121	flgI	flagellar P-ring protein precursor FlgI conserved hypothetical protein
	n an C	
PA1172	napC	cytochrome c-type protein NapC
PA1173	napB	cytochrome c-type protein NapB precursor
PA1174	napA	periplasmic nitrate reductase protein NapA
PA1175	napD	NapD protein of periplasmic nitrate reductase
PA1176	napF	ferredoxin protein NapF
PA1177	парЕ	periplasmic nitrate reductase protein NapE
PA1178	oprH	PhoP/Q and low Mg2+ inducible outer membrane protein H1 precursor
PA1179	phoP	two-component response regulator PhoP
PA1180	phoQ	two-component sensor PhoQ
PA1202	ъ	probable hydrolase
PA1246	aprD	alkaline protease secretion protein AprD
PA1247	aprE	alkaline protease secretion protein AprE
PA1249	aprA	alkaline metalloproteinase precursor
PA1283		probable transcriptional regulator
PA1287		probable glutathione peroxidase
PA1289		hypothetical protein
PA1301		probable transmembrane sensor
PA1327		probable protease
PA1342		probable binding protein component of ABC transporter
PA1348		hypothetical protein
PA1353		hypothetical protein
PA1430	lasR	transcriptional regulator LasR
PA1431	rsaL	regulatory protein RsaL
PA1432	lasI	autoinducer synthesis protein LasI
PA1454	fleN	flagellar synthesis regulator FleN
PA1455	fliA	sigma factor FliA
PA1456	cheY	two-component response regulator CheY
PA1458		probable two-component sensor
PA1462		probable plasmid partitioning protein
PA1464		probable purine-binding chemotaxis protein
PA1545		hypothetical protein
PA1617		probable AMP-binding enzyme

PA1641		hypothetical protein
PA1728		hypothetical protein
PA1729		conserved hypothetical protein
PA1733		conserved hypothetical protein
PA1752		hypothetical protein
PA1753		conserved hypothetical protein
PA1760		
PA1760 PA1762		probable transcriptional regulator
		hypothetical protein
PA1784		hypothetical protein
PA1817		hypothetical protein
PA1819		probable amino acid permease
PA1860		hypothetical protein
PA1874		hypothetical protein
PA1875		probable outer membrane protein precursor
PA1876		probable ATP-binding/permease fusion ABC transporter
PA1887		hypothetical protein
PA1888		hypothetical protein
PA1914		conserved hypothetical protein
PA1931		probable ferredoxin
PA1944		hypothetical protein
PA1985	pqqA	pyrroloquinoline quinone biosynthesis protein A
PA2006		probable major facilitator superfamily (MFS) transporter
PA2007	maiA	maleylacetoacetate isomerase
PA2009	hmgA	homogentisate 1,2-dioxygenase
PA2020		probable transcriptional regulator
PA2024		probable ring-cleaving dioxygenase
PA2025	gor	glutathione reductase
PA2027		hypothetical protein
PA2166		hypothetical protein
PA2174		hypothetical protein
PA2237	pslG	probable glycosyl hydrolase
PA2247	bkdA1	2-oxoisovalerate dehydrogenase (alpha subunit)
PA2248	bkdA2	2-oxoisovalerate dehydrogenase (beta subunit)
PA2249	bkdB	branched-chain alpha-keto acid dehydrogenase (lipoamide component)
PA2250	lpdV	lipoamide dehydrogenase-Val
PA2364		hypothetical protein
PA2365		conserved hypothetical protein
PA2367		hypothetical protein
PA2375		hypothetical protein
PA2381		hypothetical protein
PA2422		hypothetical protein
PA2423		hypothetical protein
PA2433		hypothetical protein
PA2434		hypothetical protein
PA2501		hypothetical protein
PA2504		hypothetical protein
PA2511		probable transcriptional regulator
PA2562		hypothetical protein
PA2564		hypothetical protein
PA2565		hypothetical protein
PA2566		conserved hypothetical protein
PA2571		probable two-component sensor
PA2573		probable chemotaxis transducer
PA2577		probable transcriptional regulator
PA2587	pqsH	probable FAD-dependent monooxygenase
	1 1	1 1

PA2591		probable transcriptional regulator
PA2605		conserved hypothetical protein
PA2607		conserved hypothetical protein
PA2618		hypothetical protein
PA2620	clpA	ATP-binding protease component ClpA
PA2622	cspD	cold-shock protein CspD
PA2640	nuoE	NADH dehydrogenase I chain E
PA2643	nuoH	NADH dehydrogenase I chain H
PA2645	nuoJ	NADH dehydrogenase I chain J
PA2646	nuoK	NADH dehydrogenase I chain K
PA2747		hypothetical protein
PA2754		conserved hypothetical protein
PA2762		hypothetical protein
PA2771		conserved hypothetical protein
PA2779		hypothetical protein
PA2799		hypothetical protein
PA2827		conserved hypothetical protein
PA2841		probable enoyl-CoA hydratase/isomerase
PA2849		probable transcriptional regulator
PA2883		hypothetical protein
PA2897		probable transcriptional regulator
PA2915		hypothetical protein
PA2920		probable chemotaxis transducer
PA2937		hypothetical protein
PA2939		probable aminopeptidase
PA3017		conserved hypothetical protein
PA3032	snr1	cytochrome c Snr1
PA3040		conserved hypothetical protein
PA3068	gdhB	NAD-dependent glutamate dehydrogenase
PA3186	oprB	Glucose/carbohydrate outer membrane porin OprB precursor
PA3187		probable ATP-binding component of ABC transporter
PA3188		probable permease of ABC sugar transporter
PA3216		hypothetical protein
PA3229		hypothetical protein
PA3234		probable sodium:solute symporter
PA3235		conserved hypothetical protein
PA3311		conserved hypothetical protein
PA3316		probable permease of ABC transporter
PA3343		hypothetical protein
PA3345		hypothetical protein
PA3346		probable two-component response regulator
PA3347		hypothetical protein
PA3348		probable chemotaxis protein methyltransferase
PA3349		probable chemotaxis protein
PA3351	flgM	FlgM
PA3352		hypothetical protein
PA3369		hypothetical protein
PA3371		hypothetical protein
PA3415		probable dihydrolipoamide acetyltransferase
PA3416		probable pyruvate dehydrogenase E1 component, beta chain
PA3418	ldh	leucine dehydrogenase
PA3451		hypothetical protein
PA3465		conserved hypothetical protein
PA3477	rhlR	transcriptional regulator RhlR
PA3496		hypothetical protein
		-

PA3526		probable outer membrane protein precursor
PA3568		probable acetyl-coa synthetase
PA3569	mmsB	3-hydroxyisobutyrate dehydrogenase
PA3570	mmsA	methylmalonate-semialdehyde dehydrogenase
PA3622	rpoS	sigma factor RpoS
PA3628		probable esterase
PA3629	adhC	alcohol dehydrogenase class III
PA3662		hypothetical protein
PA3674		hypothetical protein
PA3684		hypothetical protein
PA3688		hypothetical protein
PA3723		probable FMN oxidoreductase
PA3724	lasB	elastase LasB
PA3740		hypothetical protein
PA3753		conserved hypothetical protein
PA3784		hypothetical protein
PA3785		conserved hypothetical protein
PA3786		hypothetical protein
PA3792	leuA	2-isopropylmalate synthase
PA3833		hypothetical protein
PA3846		hypothetical protein
PA3847		conserved hypothetical protein
PA3848		hypothetical protein
PA3851		hypothetical protein
PA3858		probable amino acid-binding protein
PA3922		conserved hypothetical protein
PA3923		hypothetical protein
PA3945		conserved hypothetical protein
PA3957		probable short-chain dehydrogenase
PA3986		hypothetical protein
PA4012		hypothetical protein
PA4079		probable dehydrogenase
PA4112		probable sensor/response regulator hybrid
PA4129		hypothetical protein
PA4218		probable transporter
PA4219		hypothetical protein
PA4220		hypothetical protein
PA4221	fptA	Fe(III)-pyochelin outer membrane receptor precursor
PA4222	<i>31</i>	probable ATP-binding component of ABC transporter
PA4223		probable ATP-binding component of ABC transporter
PA4224	pchG	pyochelin biosynthetic protein PchG
PA4225	pchF	pyochelin synthetase
PA4226	pchE	dihydroaeruginoic acid synthetase
PA4227	pchR	transcriptional regulator PchR
PA4228	pchD	pyochelin biosynthesis protein PchD
PA4229	pchC	pyochelin biosynthetic protein PchC
PA4230	pchB	salicylate biosynthesis protein PchB
PA4231	pchA	salicylate biosynthesis isochorismate synthase
PA4290	1 -	probable chemotaxis transducer
PA4294		hypothetical protein
PA4296	pprB	two-component response regulator, PprB
PA4297	tad G	TadG
PA4298		hypothetical protein
PA4299	tadD	TadD
PA4300	tadC	TadC

PA4301	tadB	TadB
PA4302	tadA	TadA ATPase
PA4303	tadZ	TadZ
PA4304	rcpA	RcpA
PA4305	rcpC	RcpC
PA4306	flp	Type IVb pilin, Flp
PA4311	$J^{i}P$	conserved hypothetical protein
PA4315	mvaT	transcriptional regulator MvaT, P16 subunit
PA4324	mvai	hypothetical protein
PA4377		hypothetical protein
PA4410	ddlB	D-alanineD-alanine ligase
PA4411	murC	UDP-N-acetylmuramatealanine ligase
1711111	mui	UDP-N-acetylglucosamineN-acetylmuramyl-(pentapeptide) pyrophosphoryl-
PA4412	murG	undecaprenol N-acetylglucosamine transferase
PA4414	murD	UDP-N-acetylmuramoylalanineD-glutamate ligase
PA4415	mraY	phospho-N-acetylmuramoyl-pentapeptide-transferase
PA4417	murE	UDP-N-acetylmuramoylalanyl-D-glutamate-2, 6-diaminopimelate ligase
PA4418	ftsI	penicillin-binding protein 3
PA4420	v	conserved hypothetical protein
PA4474		conserved hypothetical protein
PA4507		hypothetical protein
PA4572	fklB	peptidyl-prolyl cis-trans isomerase FklB
PA4573		hypothetical protein
PA4590	pra	protein activator
PA4607		hypothetical protein
PA4608		hypothetical protein
PA4611		hypothetical protein
PA4633		probable chemotaxis transducer
PA4641		still frameshift hypothetical protein
PA4648		hypothetical protein
PA4651		probable pili assembly chaperone
PA4702		hypothetical protein
PA4703		hypothetical protein
PA4713		hypothetical protein
PA4717		conserved hypothetical protein
PA4733	acsB	acetyl-coenzyme A synthetase
PA4735		hypothetical protein
PA4736		hypothetical protein
PA4766		conserved hypothetical protein
PA4767		conserved hypothetical protein
PA4778		probable transcriptional regulator
PA4781		probable two-component response regulator
PA4782		hypothetical protein
PA4793		hypothetical protein
PA4810	fdnI	nitrate-inducible formate dehydrogenase, gamma subunit
PA4811	fdnH	nitrate-inducible formate dehydrogenase, beta subunit
PA4812	fdnG	formate dehydrogenase-O, major subunit
PA4841		conserved hypothetical protein
PA4874		conserved hypothetical protein
PA4876	osmE	osmotically inducible lipoprotein OsmE
PA4880		probable bacterioferritin
PA4913		probable binding protein component of ABC transporter
PA4915		probable chemotaxis transducer
PA4925		conserved hypothetical protein
PA4929	ans V	hypothetical protein
PA5039	aroK	shikimate kinase

DA 5060		11 4 4 4 4		
PA5062		conserved hypothetical protein		
PA5097		probable amino acid permease		
PA5101		hypothetical protein		
PA5148		conserved hypothetical protein		
		amino acid (lysine/arginine/ornithine/histidine/octopine)	ABC	transporter
PA5153		periplasmic binding protein		
PA5163	rmlA	glucose-1-phosphate thymidylyltransferase		
PA5178		conserved hypothetical protein		
PA5208		conserved hypothetical protein		
PA5213	gcvP1	glycine cleavage system protein P1		
PA5214	gcvH1	glycine cleavage system protein H1		
PA5245		conserved hypothetical protein		
PA5253	algP	alginate regulatory protein AlgP		
PA5255	algQ	Alginate regulatory protein AlgQ		
PA5261	algR	alginate biosynthesis regulatory protein AlgR		
PA5301		probable transcriptional regulator		
PA5348		probable DNA-binding protein		
PA5350	rubA2	Rubredoxin 2		
PA5359		hypothetical protein		
PA5424		conserved hypothetical protein		
PA5482		hypothetical protein		
PA5527		hypothetical protein		
PA5543		hypothetical protein		
PA5545		conserved hypothetical protein		
PA5546		conserved hypothetical protein		